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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/670,500	09/26/2003	Yih-Hsing Lo	LOYI3001/EM	8630	
23364	7590 05/16/2005		EXAMINER		
BACON & THOMAS, PLLC 625 SLATERS LANE			MULLIS, JEFPREY C		
FOURTH FL			ART UNIT	PAPER NUMBER	
ALEXANDRIA, VA 22314			1711		
			DATE MAU CD- 05/16/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	lu			
Office Action Summary		10/670,500	LO ET AL.				
		Examiner	Art Unit				
		Jeffrey C. Mullis	1711				
Period f	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address	•			
THE - External control	HORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.7 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a rep o period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) dwill apply and will expire SIX (6) MONTHS froe, cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communic. IED (35 U.S.C. § 133).	ation.			
Status							
1)	Responsive to communication(s) filed on 26 S	September 2003.					
· —	This action is FINAL . 2b)⊠ This action is non-final.						
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	tion of Claims						
4)🖂	☑ Claim(s) <u>1-26</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-3,17 and 19</u> is/are rejected.						
7)🖂	Claim(s) <u>4-16,18 and 20-26</u> is/are objected to.						
8)[Claim(s) are subject to restriction and/o	or election requirement.					
Applicat	tion Papers						
9)[The specification is objected to by the Examine	er.					
10)🛛	10)⊠ The drawing(s) filed on <u>26 Se<i>ptember</i> 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)[]	The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form PTO-152	2 .			
Priority	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign ⊠ All b) Some * c) None of: 1. Certified copies of the priority document	ts have been received.					
	2. Certified copies of the priority document	• •					
	3. Copies of the certified copies of the prior	•	ved in this National Stage				
* :	application from the International Burea See the attached detailed Office action for a list	` ' ' ' '	(ad	•			
`	oce the attached detailed Office action for a list	. of the certified copies flot recen	veu.				
Attachmer	nt(e)						
	ce of References Cited (PTO-892)	4) Interview Summa	ry (PTO-413)				
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail I	Date				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PTO-152)				

No IDS has been received by the Office and it is therefore assumed none was submitted.

Claim 3 contains the word "claim2". Correction is required.

35 U.S.C. 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with terms which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. Examples of some unclear, inexact or verbose terms used in the specification are: "otheras like", page 5, line 11; "Thomas at all" 3, line 8, Pphsubscript 2PCL and "Tp" in Example 1.

Claims 4-16, 18 and 20-26 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only and cannot depend from other multiple dependent claims and accordingly the reference to other claims "as defined above" is not proper. See MPEP § 608.01(n). Accordingly, the claims 4-16 18, and 20-26 have not been further treated on the merits. Lastly the definitions "as defined above" pertains to a different set of features and claims reciting "as defined above" are also objected to as reciting different sets of features in different claims.

Claims 1-3, 17 and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "can be defined" is unclear since this phrase can be interpreted such that product is necessarily the same as that made by blending or may not be made by the recited blending process.

The term "other as like" as recited in at least claims 3 and 17 is subjective since it cannot be objectively be determined when a material is like another.

Claim 17 contains the phrase "dissolving and blend (sic)" and it is unclear if applicants intent "blending" or if instead "a blend" is intended.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 17 and 19 are rejected under 35 U.S.C. 103(a) as obvious over Fink et al (US 6,671,097) in view of Inata et al (US 4,292,151) relied upon for cklaims 17 and 19.

Fink et al. Disclose a polymeric photonic band gap structure having microdomains and containing "one or more block copolymers or polymeric mixtures involving various blends of homopolymers and/or random copolymers with block copolymers" column 8, lines 24-26 and also discloses modifying the polymeric composition specifically with a

polystyrene/polybutadiene mixture at column 8, lines 37-39. Metal clusters may be chemically combined with the polymeric species at column 14, lines 50-54. The material may be used as a coating at column 14, lines5-10.

Inata disclose a process for forming a coating in which solvent is evaporated off at room temperature followed by heating (column 2, lines 18-22).

No examples of blends of a block copolymer and organometallic homopolymer and other homopolymers is disclosed nor is the process of claims 17 and 19 disclosed. However, to produce a composition of block copolymer, organometallic homopolymers and other homopolymers would have been obvious to a practitioner having an ordinary skill in the art at the time of the invention based on the disclosure of Fink since such blends fall within the broad ambit of Fink and in the expectation of adequate results, absent any showing of surprising or unexpected results. With regard to dissolving such a composition and evaporating as in instant claims 17 and 19, use of such in Finks' process would have been obvious to a practitioner having an ordinary skill since Fink disclose formation of coating using his composition and motivated by the secondary reference which disclose a process for producing a coating, absent any showing of surprising or unexpected results.

Any inquiry concerning this communication should be directed to Jeffrey C. Mullis at telephone number 571 272 1075.

Jeffrey C. Mullis J Mullis Art Unit 1711

JCM

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Group 4200